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APPLICATION NO	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,724	•	11/21/2003	Joseph John Shiang	28230-3	1007
6147	7590	12/11/2006	EXAMINER		
		TRIC COMPANY	CANNING, ANTHONY J		
	RESEARO DOCKET I	CH RM. BLDG. K1-4A59	ART UNIT	PAPER NUMBER	
NISKAYU	JNA, NY	12309	2879		
•				DATE MAILED: 12/11/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/725,724	SHIANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anthony J. Canning	2879					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 11 Se	eptember 2006.						
	action is non-final.						
3) Since this application is in condition for allowan		secution as to the merits is					
closed in accordance with the practice under E.	·	i e e e e e e e e e e e e e e e e e e e					
Disposition of Claims							
4) Claim(s) 1-22 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) 1-22 is/are rejected.							
7) Claim(s) is/are objected to.							
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Application Papers	Closed Foquitoria.	·					
_							
9) The specification is objected to by the Examiner							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: See Continue	te atent Application					

Continuation of Attachment(s) 6). Other: English translation of JP 11-307266.

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DETAILED ACTION

Acknowledgement of Amendment

The amendment to the instant application was entered on 11 September 2006.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned

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with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 2, 6, 9, 10, 12, 14-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4, 9, 10, 12-14 and 18 of U.S. Patent No. 6,703,780 B2. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

U.S. App. 10/725,724	U.S. Patent 6,703,780 B2
Claim 1. An OELD with a first	Claims 1, 2, 3, 4, 9, and 10. An
and second electrode, an	OELD with first and second
organic light-emitting layer; and	electrodes, an organic light
a ceramic output coupler, which	emitting layer; and a ceramic
comprises a ceramic material	output coupler. While voids in
and a plurality of voids therein.	the ceramic coupler are not
	specifically disclosed, ceramics
	by definition are porous
	insulators.
Claim 2. The OELD with the	Claims 1, 2, 3, 4, 9, and 10. An
limitations from claim 1, the	OELD with first and second
ceramic output coupler	electrodes, an organic light
includes a ceramic layer	emitting layer; and a ceramic
containing a light-emitting	output coupler. While voids in
surface.	the ceramic coupler are not
	specifically disclosed, ceramics
	by definition are porous
	insulators. Further including that
	the ceramic output coupler
	includes a ceramic layer
	containing a light-emitting
	surface.
Claim 6. The OELD including	Claim 9. An OELD with a first
the limitations of claim 2.	and second electrode, an
with a substrate between the	organic light-emitting layer; and

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ceramic output coupler.	a ceramic output coupler with
	another ceramic layer between
	the ceramic output coupler and
	an adjacent layer of the device.
Claims 9 and 10. The OELD	Claims 1, 10 and 12. An OELD
including the limitations of	with a first electrode and second
claim 2, where the ceramic	electrode, an organic light
output coupler is shaped,	emitting layer; and a ceramic
specifically to have a corrugated	output coupler. While voids in
or dimpled light-emitting surface.	the ceramic coupler are not
	specifically disclosed, ceramics
	by definition are porous
	insulators. Further including that
	the output coupler is shaped,
	specifically to have a corrugated
	or dimpled light-emitting surface.
Claim 12. The OELD including	Claims 1, 2, 3, 4, 9, and 10. An
the limitations of claim 2,	OELD with first and second
including that the ceramic	electrodes, an organic light
output coupler randomly volume	emitting layer; and a ceramic
scatters light emitted by the	output coupler. While voids in
organic light emitting layer to	the ceramic coupler are not
reduce a critical angle loss.	specifically disclosed, ceramics
	by definition are porous
	insulators. Further including that
Claim 14. The device of claim 2,	Claim 13. An OELD wherein the
wherein the ceramic output	ceramic output coupler includes
coupler includes, alumina,	alumina, yttrium oxide, yttrium
yttrium oxide, yttrium aluminum	aluminum oxide, magnesium
oxide, magnesium aluminum	aluminum oxide, titanium oxide.
oxide, titanium oxide.	
Claims 15-19. An	Claim 14. An organic EL
OELD wherein the ceramic	device wherein the ceramic
output coupler includes a light	output coupler includes a light
emitting material, which is	emitting material, which is
ceramic phosphor, YAG:Ce3+,	ceramic phosphor, YAG:Ce3+,
or a ceramic semiconductor.	or a ceramic semiconductor.
Claim 20. An OELD with a first	Claim 18. Method of forming an
and second electrode, an	OELD with first and second
organic light-emitting layer; and	electrodes, an organic light
a ceramic output coupler, which	emitting layer; and a ceramic
comprises a ceramic material	output coupler. While voids in

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and a plurality of voids therein, the method of manufacturing thereof. the ceramic coupler are not specifically disclosed, ceramics by definition are porous insulators.

Allowable Subject Matter

The indicated allowable subject matter of claims 10 and 11 is withdrawn in view of the newly discovered reference to Hori et al. (J.P. 11-307266). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6, 7, 9, 10, 12-14, 20 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Hori et al. (J.P. 11-307266).

Regarding claims 1 and 20, Hori et al. disclose an organic electroluminescent light emitting device and the method therefore (paragraph 0001), comprising: a first electrode (see Drawing 9, item 926; paragraph 0069); a second electrode (see Drawing 9, item 95; paragraph 0069); at least one organic light emitting layer (see Drawing 9, item 94; paragraph 0069); and a ceramic output coupler (see Drawing 9, item 97'; paragraphs 0063 and 0069; titanium oxide and

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silicon oxide are both ceramics), which comprises a ceramic material and a plurality of voids distributed therein (ceramic materials by definition are inherently porous; also the periodically repeating ceramic materials in layer 97 create voids between the titanium oxide and silica oxide).

Regarding claim 2, Hori et al. disclose the device of claim 1. Hori et al. further disclose that the device comprises an organic light emitting diode (paragraph 0005; the luminous layer emits light via radiative recombination of electrons and holes in the organic luminous layer, this is the principle under which light-emitting diodes work); and the ceramic output coupler comprises a ceramic layer containing a light-emitting surface of the device (see Drawing 9, item 97'; paragraph 0069).

Regarding claim 3, Hori et al. disclose the device of claim 2. Hori et al. further disclose that the ceramic output coupler reduces a critical angle loss and a Fresnel loss (this is a inherent property of function of the ceramic output coupler); and an index of refraction of the ceramic output coupler (n=1.6 for silicon monoxide) is matched to an index of refraction of an adjacent layer (see Drawing 9, item 91; paragraphs 0069; n=1.5 for glass, the indices of refraction are similar and the examiner interprets this as being matched) of the electroluminescent device.

Regarding claims 4 and 6, Hori et al. disclose the device of claims 2 and 3. Hori et al. further disclose that the index of refraction of the ceramic output coupler (n=1.6 for silicon monoxide) differs by 0.1 or less from the index of refraction of the adjacent layer (n=1.5 for glass) of the electroluminescent device.

Regarding claim 7, Hori et al. disclose the device of claim 6. Hori et al. further disclose that the index of refraction of the ceramic output coupler (n=1.6 for silicon monoxide) is the

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same or greater than the index of refraction of the substrate (n=1.5 for glass) of the electroluminescent device.

Regarding claim 9, Hori et al. disclose the device of claim 2. Hori et al. further disclose that the ceramic output coupler comprises a shaped ceramic material (see Drawing 9, item 97'; paragraph 0069, the repeated periodically of two ceramics is a shaped ceramic) attached to the organic light emitting diode (see Drawing 9, item 97').

Regarding claim 10, Hori et al. disclose the device of claim 9. Hori et al. further disclose that the ceramic output coupler includes translucent ceramic material (paragraph 0069, since only some of the light is allowed to pass through layer 97', layer 97' is translucent) having a corrugated or dimpled light-emitting surface (see Drawing 9, item 97').

Regarding claim 12, Hori et al. disclose the device of claim 2. Hori et al. further disclose that the ceramic output coupler randomly volume scatters light emitted by the organic light emitting layer (paragraph 0069; periodic refractive-index distribution is formed of a dielectric layer 97 and 97', distribution periodic to the effective index is formed in the waveguide of the light to spread) to reduce a critical angle loss (this is an inherent property of the ceramic output coupler).

Regarding claim 13, Hori et al. disclose the device of claim 12. Hori et al. further disclose that the device comprises an organic light emitting diode (paragraph 0005; the luminous layer emits light via radiative recombination of electrons and holes in the organic luminous layer, this is the principle under which light-emitting diodes work), the ceramic coupler comprises a ceramic layer containing a light emitting surface of the device (see Drawing 9, item 97'; paragraph 0069), and the ceramic output coupler volume contains voids which randomly scatter

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light emitted by the organic light emitting layer to reduce a critical angle loss (paragraph 0069; periodic refractive-index distribution is formed of a dielectric layer 97 and 97', distribution periodic to the effective index is formed in the waveguide of the light to spread; ceramics inherently are a porous material and will therefore randomly scatter light, which will reduce a critical angle loss).

Regarding claim 14, Hori et al. disclose the device of claim 2. Hori et al. further disclose that the ceramic output coupler material includes titanium oxide (paragraph 0063).

Regarding claim 22, Hori et al. disclose the method of claim 20. Hori et al. further disclose forming the first electrode of a transparent conductive material (see Drawing 9, item 926; paragraph 0069) over the ceramic output coupler (see Drawing 9, item 97; paragraph 0069) which comprises a ceramic substrate (see Drawing 9, item 97'; paragraph 0069); forming the at least one organic light emitting layer over the first electrode (see Drawing 9, item 94; paragraph 0069); and forming a second electrode of a metal material over the at least one organic light emitting layer (see Drawing 9, item 95; paragraph 0069).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hori et al. (J.P. 11-307266).

As to claim 11, Hori et al. disclose the device of claim 10. Hori et al. fail to specifically disclose that each dimple has a height greater than 0.1 microns and a spacing between dimple or corrugation peaks is a factor of 10 or less of the dimple height. From the applicant's specification (page 8, lines 26-31 through page 9, lines 1-9) the dimples or corrugations may be omitted and therefore is not a critical element for the invention. Consequently, the claimed dimple/corrugation height and spacing is not a range with criticality to the invention.

Furthermore, to establish unexpected results over a claimed range, applicants should compare a sufficient number of tests both inside and outside the claimed range to show the criticality of the claimed range. *In re Hill*, 284 F.2d 955, 128 USPQ 197 (CCPA 1960). An affidavit or declaration under 37 CFR 1.132 must compare the claimed subject matter with the closest prior art to be effective to rebut a *prima facie* case of obviousness. *In re Burckel*, 592 F.2d 1175, 201 USPQ 67 (CCPA 1979). "A comparison of the claimed invention with the disclosure of each cited reference to determine the number of claim limitations in common with each reference, bearing in mind the relative importance of particular limitations, will usually yield the closet single prior art reference." *In re Merchant*, 575 F.2d 865, 868, 197 USPQ 785, 787 (CCPA 1978). Where the comparison is not identical with the reference disclosure, deviations therefrom should be explained, *In re Finley*, 174 F.2d 130, 81 USPQ 383 (CCPA 1949), and if not explained should be noted and evaluated, and if significant, explanation should be required. *In re Armstrong*, 280 F.2d 132, 126 USPQ 281 (CCPA 1960) (deviations from example were inconsequential).

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Claims 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hori et al. (J.P. 11-307266) in view of Shimizu et al. (U.S. 5,998,925).

As to claim 15, Hori et al. disclose the device of claim 2. Hori et al. fail to disclose that the ceramic output coupler includes a light-emitting material.

In the same field of endeavor, Shimizu et al. disclose a light-emitting (see Fig. 1; column 1, lines 9-15) device including a ceramic output coupler (see Fig. 2, item 201; column 16, lines 54-67; glass is silicon dioxide which is a porous ceramic, also the dispersant is titanium oxide which is a porous ceramic; item 101 from figure 1 corresponds to item 201 from figure 2), which includes a light-emitting material (column 16, lines 54-60). Shimizu et al. further disclose that this arrangement allows for a desired emission pattern because the light is emitted after being diffused by the light-emitting material (column 9, lines 10-12).

Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the light-emitting device of Hori et al. to include that the ceramic output coupler includes a light-emitting material, as taught by Shimizu et al., to allow for a desired emission pattern because the light is emitted after being diffused by the light-emitting material.

As to claims 16 and 17, Hori et al. and Shimizu et al. disclose the device of claim 15. Shimizu et al. further disclose that the light-emitting material is a ceramic phosphor, and that the ceramic phosphor is YAG:Ce³⁺ (column 10, lines 25-27). Shimizu et al. further disclose that YAG:Ce³⁺ shows excellent resistance against light and heat so that the properties thereof do not change even when used over an extended period of time.

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Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the light-emitting device of Hori et al. to include that the light-emitting material is a ceramic phosphor, and that the ceramic phosphor is YAG:Ce³⁺, as taught by Shimizu et al., for the advantage that YAG:Ce³⁺ shows excellent resistance against light and heat so that the properties thereof do not change even when used over an extended period of time.

As to claim 18, Hori et al. disclose the device of claim 2. Hori et al. fail to disclose that the ceramic output coupler includes a ceramic matrix material including light-emitting particles.

In the same field of endeavor, Shimizu et al. disclose a light-emitting (see Fig. 1; column 1, lines 9-15) device including a ceramic output coupler (see Fig. 2, item 201; column 16, lines 54-67; glass is silicon dioxide which is a porous ceramic; item 101 from figure 1 corresponds to item 201 from figure 2), which includes a ceramic matrix material (column 16, lines 60-67; the titanium oxide dispersant and glass coating material constitute a matrix) containing light-emitting material (column 16, lines 54-60). Shimizu et al. further disclose that this arrangement allows for a desired emission pattern because the light is emitted after being diffused by the light-emitting material (column 9, lines 10-12).

Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the light-emitting device of Hori et al. to include that the ceramic output coupler includes a ceramic matrix material including light-emitting particles, as taught by Shimizu et al., to allow for a desired emission pattern because the light is emitted after being diffused by the light-emitting material.

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As to claim 19, Hori et al. and Shimizu et al. disclose the device of claim 18. Shimizu et al. further disclose that the light-emitting material includes semiconductor particles (column 10, lines 25-27; YAG:Ce³⁺ is a semiconductor material). Shimizu et al. further disclose that YAG:Ce³⁺ shows excellent resistance against light and heat so that the properties thereof do not change even when used over an extended period of time.

Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the light-emitting device of Hori et al. to include that the light-emitting material includes a semiconductor material, as taught by Shimizu et al., for the advantage that YAG:Ce³⁺ shows excellent resistance against light and heat so that the properties thereof do not change even when used over an extended period of time.

Claims 5, 8 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hori et al. (J.P. 11-307266) in view of Kawase (U.S. 6,472,817 B1).

As to claims 5 and 8, Hori et al. disclose the device of claims 4 and 7. Hori et al. fail to disclose that the ceramic output coupler is the same as the index of refraction of the adjacent layer of the electroluminescent device.

In the same field of endeavor, Kawase discloses an organic electroluminescent device (see Fig. 8c; column 1, lines 8-9) with a ceramic output coupler (see Fig. 8c, item 20; column 3, lines 64-67 through column 4, lines 1-2; silicon dioxide is a porous ceramic) that has the same as the index of refraction of the adjacent layer (see Fig. 8c, item 8; the second table in column 4; the transparent substrate, item 8, has an index of refraction between 1.45-1.6, and the output layer, item 20, has an index of refraction between 1.4-1.5; the two indices of refraction overlap,

therefore they can be the same) of the electroluminescent device. Kawase further discloses that this arrangement reduces the loss of light to the substrate (column 3, line 67 through column 4, line 1).

Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the organic electroluminescent device of Hori et al. to include that the ceramic output coupler is the same as the index of refraction of the adjacent layer of the electroluminescent device, as taught by Kawase, to reduce the loss of light to the substrate.

As to claim 21, Hori et al. disclose the device of claim 21. Hori et al. fail to disclose forming the first electrode of a transparent conductive material over a first surface of a glass or polymer substrate; forming the at least one organic light-emitting layer over the first electrode; forming a second electrode of a metal material over the at least one organic light-emitting layer; and forming the ceramic output coupler over the second surface of the glass or polymer substrate.

In the same field of endeavor, Kawase discloses an organic electroluminescent device (see Fig. 8c; column 1, lines 8-9) wherein the first electrode (see Fig. 8c, item 4; column 3, lines 39-41) of a transparent conductive material (column 3, lines 39-41) is formed over a first surface of a glass or polymer substrate (see Fig. 8c, item 8; column 1, lines 24-26; the second table in column 4, item 8 is a transparent substrate); the at least one organic light-emitting layer (see Fig. 8c, item 6; column 3, lines 64-67 through column 4, lines 1-13) is formed over the first electrode (see Fig. 8c, item 6 is formed over item 4); a second electrode (see Fig. 8c, item 2; column 4, lines 7-13) of a metal material (column 1, lines 24-26) is formed over the at least one organic light-emitting layer (see Fig. 8c, items 6 and 2); and the ceramic output coupler (see Fig. 8c, item

20; column 3, lines 64-67 through column 4, lines 1-6) is formed over the second surface of the glass or polymer substrate (see Fig. 8c, items 8 and 20). Kawase further discloses that this arrangement reduces the loss of light to the substrate (column 3, line 67 through column 4, line 1).

Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made, to modify the organic electroluminescent device of Hori et al. to disclose forming the first electrode of a transparent conductive material over a first surface of a glass or polymer substrate; forming the at least one organic light-emitting layer over the first electrode; forming a second electrode of a metal material over the at least one organic light-emitting layer; and forming the ceramic output coupler over the second surface of the glass or polymer substrate, as taught by Kawase, to reduce the loss of light to the substrate.

Response to Arguments

Applicant's arguments, see Remarks/Arguments, filed 11 September 2006, with respect to the rejection(s) of claim(s) 1-22 under Hung et al. (U.S. 6,069,442) and Wright et al. (U.S. 5,831,699) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Hori et al. (J.P. 11-307266) (claims 1-4, 6, 7, 9-14, 20 and 22), Hori et al. (J.P. 11-307266) in view of Shimizu et al. (U.S. 5,998,925) (claims 15-19), and Hori et al. (J.P. 11-307266) in view of Kawase (U.S. 6,472,817 B1) (claims 5, 8 and 21).

The examiner notes the terminal disclaimer filed, however the examiner cannot see the terminal disclaimer and suggest that the applicant resubmit the terminal disclaimer.

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Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anthony J. Canning whose telephone number is (571)-272-2486.

The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh D. Patel can be reached on (571)-272-2457. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Anthony Canning & Patent Examiner

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Kghlaray

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